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10/538,046	08/26/2005	Stefan Gustafsson	3660-43	1437
23117 NIXON & VAN	7590 07/09/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	ADDY, ANTHONY S		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	on No.	Applicant(s)				
		10/538,04	6	GUSTAFSSON ET AL.				
		Examiner		Art Unit				
		ANTHON	/ S. ADDY	2617				
Period fo	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the o	correspondence ad	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR FOR HEVER IS LONGER, FROM THE MAILING IN THE MAILING	NG DATE OF TH CFR 1.136(a). In no evo tion. period will apply and wi y statute, cause the app	IIS COMMUNICATION OF THE PROPERTY OF THE PROPE	N. mely filed the mailing date of this of the (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed on	28 March 2008						
-	Responsive to communication(s) filed on <u>28 March 2008</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)	Since this application is in condition for a	_		osecution as to the	e merits is			
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	on of Claims							
4)⊠	Claim(s) <u>1-10</u> is/are pending in the applic	cation.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.							
	is/are withdrawn from consideration.  Claim(s) is/are allowed.							
·	6)⊠ Claim(s) <u>1-10</u> is/are rejected.							
	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction	and/or election re	equirement.					
	on Papers							
	• The specification is objected to by the Exa	aminer						
•			Objected to by the	Examiner				
.0/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
					ER 1 121(d)			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
,—	under 35 U.S.C. § 119							
_	_	oroign priority up	dor 25119 C 8 110/a	) (d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	<ul><li>2. Certified copies of the priority documents have been received in Application No</li><li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li></ul>							
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
Occ the attached detailed Office action for a list of the certified copies flot received.								
Attachmen				(DTO 410)				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08)								
Paper No(s)/Mail Date <u>12/17/2007</u> . 6) Other:								

## **DETAILED ACTION**

This action is in response to applicant's amendment filed on March 28, 2008.
 Claim 11 has been cancelled. Claims 1-10 are now pending in the present application.

## Response to Arguments

2. Applicant's arguments with respect to **claims 1-10** have been considered but are moot in view of the new ground(s) of rejection. Arguments are directed to newly added limitations and the new ground(s) of rejection based on the newly added limitations follow below.

## Claim Rejections - 35 USC § 103

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lundin, U.S. Publication Number 2001/0003093 A1 (hereinafter Lundin) in view of Lindgren et al., U.S. Patent Number 6,411,632 (hereinafter Lindgren) or in view of Applicant's Admitted Prior Art (page 3, lines 1-27 of original disclosure).

Regarding claims 1 and 5, Lundin teaches a system (see Fig. 2) and a method (see Fig. 5) for obtaining the position of a mobile station (*16*) located in a current network of a communications system including a plurality of networks (*i.e., local PLMN 47 and remote PLMN 50*) supporting different positioning protocols (see p. 2 [0022], p. 3 [0023], p. 4 [0028] and Figs. 1, 2 & 5), comprising: identifying at a location center (*e.g.*,

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MPC 52 or MPC 60) the current network (i.e., local PLMN 47 or remote PLMN 50) of said mobile station (16) (see p. 2 [0022], p. 3 [0025] and p. 4 [0028]), and based on said identified current network (6), selecting among at least two protocols including an IP-based protocol and MTP/SCCP, frame relay, X25, or ATM protocols, a suitable positioning protocol (e.g., IP-based protocol and MTP/SCCP, frame relay, X25, or ATM protocols) for communication of location information with said current network (6) (see p. 3 [0025-0026] and p. 4 [0028-0029]).

Although, Lundin fails to explicitly teach selecting among at least two protocols including an SS7-based protocol based on said identified current network, Lundin, however, teaches the use of a plurality of protocols, such as a positioning roaming protocol (PRP), IP based protocols, frame relay, ATM protocols e.t.c., for supporting internetworking roaming and offering positioning services; and further teaches <u>a mobile</u> positioning center (MPC) tailors position information based on an underlying protocol according to a particular system or network requirement (see p. 3 [0023] and p. 4 [0028-0029]).

In an analogous field of endeavor, Lindgren teaches a network hub interconnects a first public access cellular telephone network and a second network, and the network hub includes processing means for converting signals from being carried by the SS7 protocol to the TCP/IP protocol and vice versa (see col. 2, lines 20-24). According to Lindgren, the adaptation layer within the network hub acts as a translation interface between the different protocols, and the conversion between transportation of the SS7 protocol or the TCP/IP protocol is performed by processing means within the network

hub, and enables connection between the first and second networks (see col. 4, lines 32-41).

Moreover, the prior art admitted by applicant, disclosed on page 3, lines 1-27 of the original disclosure of the present specification (hereinafter simply referred as "the Admitted Prior Art") teaches a GMLC has information to select a SS7 protocol/IP protocol to be used in the communication of positioning data with a specific PLMN.

It would therefore have been obvious to one of ordinary skill in the art at the time of the invention to modify Lundin with the teachings of either Lindgren or the teachings of the Admitted Prior Art to include a method of selecting among at least two protocols including an SS7-based protocol based on said identified current network, in order to tailor position information based on an underlying protocol according to a particular system or network requirement.

Regarding claim 2, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 1. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches a method, where before identifying the current network of the mobile station, the method further comprises: receiving at said location center a positioning request (see *Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), identifying the subscriber's home network, based on said identified home network (see *Lundin*, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), selecting a suitable positioning protocol for communication with said home network (see *Lundin*, p. 3 [0023 & 0025] and p. 4 [0028-0029] and *Admitted Prior Art*, page 3, lines 1-27), sending a routing information request to the home network, receiving an answer from the home

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network, and analyzing the answer for identifying the current network of the mobile station (see Lundin, p. 2 [0022], p. 3 [0025] and p. 4 [0028]).

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Regarding claim 3, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 1. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches a method, further comprising: sending a position information request to the current network, and receiving an answer including location information about the subscriber from the current network (see Lundin, p. 2 [0022], p. 3 [0026] and p. 4 [0028]).

Regarding claim 4, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 1. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches a method, wherein any of the SS7 protocol, MLP or IP roaming protocol is selected (see Lundin, p. 3 [0023 & 0025] and p. 4 [0028-0029]).

Regarding claim 6, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 5. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches an apparatus, further comprising: a receiving component and a sending component, wherein said receiving component is configured to receive a positioning request from an location services (see Lundin, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), wherein said processing component is configured to identify a home network for the subscriber; and based on said identified home network (see Lundin, p. 2 [0022], p. 3 [0025] and p. 4 [0028]), select a suitable positioning protocol from said positioning protocols for communication with said home network (see

Lundin, p. 3 [0023 & 0025] and p. 4 [0028-0029] and Admitted Prior Art, page 3, lines 1-27), said sending component is configured to send a routing information request to the home network, said receiving component is configured to receive an answer from the home network, and said processing component is configured to analyze the answer for identifying the current network of the mobile station (see Lundin, p. 2 [0022], p. 3 [0025] and p. 4 [0028]).

Regarding claim 7, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 5. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches an apparatus, characterised in that said sending component is configured to send a routing information request to the visited network, and said receiving component is configured to receive an answer including location information about the roaming subscriber from the visited network (see Lundin, p. 2 [0022], p. 3 [0026] and p. 4 [0028]).

Regarding claim 8, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 5. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches an apparatus, wherein said positioning protocols are any of the SS7 protocol, and/or GMLC-centric IP roaming protocol and/or location middleware IP roaming protocol (*see Lundin*, p. 3 [0023]).

Regarding claims 9 and 10, Lundin in view of Lindgren or the teachings of the Admitted Prior Art teaches all the limitations of claim 1. Lundin in view of Lindgren or the teachings of the Admitted Prior Art further teaches a computer program stored in a record medium, computer memory, or read-only memory and comprising executable

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instructions which when executed cause a computer to perform the method of claim 1 (see *Lundin*, p. 4 [0028] and Fig. 5).

## Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ANTHONY S. ADDY whose telephone number is (571)272-7795. The examiner can normally be reached on Mon-Thur 8:00am-6:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc M. Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Anthony S Addy/ Examiner, Art Unit 2617

/Charles N. Appiah/

Supervisory Patent Examiner, Art Unit 2617